One-stop service to achieve global and domestic certification

COMPLETE ALL REQUIREMENTS WITH EXPERT GUIDANCE
To achieve full certification, card products must align with various requirements and standards, both globally and locally. Working with one partner who provides certification services for both international and domestic payment schemes greatly simplifies the certification process and accelerates time to market.

GLOBAL EXPERTISE, LOCAL PRESENCE
FIME is a market-leading laboratory, having worked with key authorities and vendors since 1995. Our strong pedigree with EMV migration has equipped us with unrivalled knowledge and expertise at both global and regional levels.

As we extend our service scope and coverage, FIME established teams across locations worldwide, ensuring we remained closely connected to local schemes and our customers.

In addition to the testing service performed at FIME, we also work with a selection of partners to offer a full service portfolio which enables us to support you with your product from planning and testing, right through to launch.

Testing service scope
• Physical conformity and durability.
• Analog, digital and interoperability.
• Application and performance.
• Security evaluation.

+ KEY BENEFITS
• One-stop service for your projects.
• Project management teams available in your regions.
• Wide range of services supporting most major schemes.
• Experienced technical testing team.
• Parallel service available to efficiently progress projects across multiple locations.
• Bundled offer for multi-brand projects.
**Service Portfolio**

### Payment schemes

<table>
<thead>
<tr>
<th>Brands</th>
<th>Smartcard</th>
<th>Secure Element (SE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Express</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2&lt;br&gt;• Physical conformity</td>
<td>SE Level 2</td>
</tr>
<tr>
<td>Discover</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>SE Level 2</td>
</tr>
<tr>
<td>epos</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>N/A</td>
</tr>
<tr>
<td>elo</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>N/A</td>
</tr>
<tr>
<td>EMVCo</td>
<td>• Contact Level 1&lt;br&gt;• Contactless Level 1&lt;br&gt;• CCD and CPA Level 2</td>
<td>AAUI / PPSE</td>
</tr>
<tr>
<td>GlobalPlatform</td>
<td>• Contact Level 2&lt;br&gt;• Contactless Level 2&lt;br&gt;• SWP/HCI</td>
<td>SE Level 2</td>
</tr>
<tr>
<td>Interac</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>SE Level 2</td>
</tr>
<tr>
<td>JCB</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>SE Level 2</td>
</tr>
<tr>
<td>Mastercard</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2&lt;br&gt;• Physical conformity (CQM)</td>
<td>SE Level 2</td>
</tr>
<tr>
<td>NETS</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>N/A</td>
</tr>
<tr>
<td>PURE</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>N/A</td>
</tr>
<tr>
<td>RuPay</td>
<td>• Contact Level 1 &amp; Level 2&lt;br&gt;• Contactless Level 1 &amp; Level 2</td>
<td>N/A</td>
</tr>
<tr>
<td>UnionPay</td>
<td>• Contact Level 2 (Card manufacturing)&lt;br&gt;• Physical conformity (IC perso, IC embedding, Magstripe perso)</td>
<td>N/A</td>
</tr>
<tr>
<td>Visa</td>
<td>• Contactless Level 1 &amp; Level 2&lt;br&gt;• Contact Level 1 &amp; Level 2</td>
<td>SE Level 2</td>
</tr>
</tbody>
</table>

### Physical conformity and durability

**Authorities and standardization bodies**

- American Express
- ANSI 322 | ANSI 440
- Bancontact
- Carte Bancaire
- GIE Sesam-Vitale
- Mastercard (CQM and CSI)
- UnionPay card manufacturer
- Visa innovation card
- Tailor-made test plan based on customer request

### Security evaluation

- American Express
- Common Criteria
- Discover
- EMVCo
- Interac
- JCB
- Mastercard CAST
- Production site - PCI card introduction security
- Visa VCSP

**In-house testing**

- Pre-testing performed at your premises by one of our experts.
- Trouble shooting analysis quickly identifies and resolves issues.

**Debug testing**

- Pre-testing based on formal test requirements and debug reviews simplifies the type approval process.
- Spy logs support troubleshooting analysis.

**Type Approval**

- Formal testing stage, including the full results and reports required to acquire Letter of Approval (LoA).

### Testing tools

**EMVeriCard**

- Electrical and protocol libraries for EMVCo Contact Level 1 testing.

**Smartspy Contact and Smartspy Contactless**

- Spy communication with cards.

**Greenlight Performance**

- Performance testing.

**Global**

- Functional Level 2 testing.

### Observation test bench

- Side-channel analysis.

### Perturbation test bench

- Fault injection.